



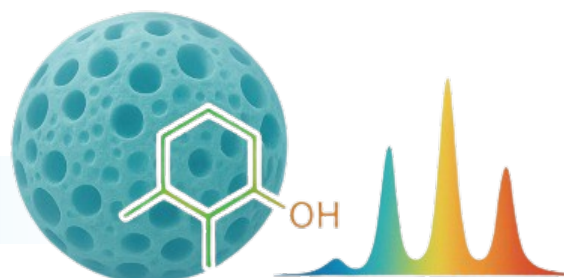
MORHCHEM TECHNOLOGIES Your Trusted Chromatography Columns

With 30+ years of expertise in column manufacturing, research, and global sales, Morhchem Technologies is a top brand in many countries across the world, delivering world-class chromatography solutions. Trusted by 200+ global pharmaceutical companies

- ✓ Serving 500+ startups & academic institutions
- ✓ Strong presence in across the globe
- ✓ 70+ R&D and QC experts supporting innovation

R&D & Technical Support

- Custom column development
- Advanced method development support
- MORHCHEM TECHNOLOGIES



Advanced Silica Matrix- Redefining Separation

COMPREHENSIVE TECHNICAL SUPPORT FOR METHOD DEVELOPMENT AND OPTIMIZATION

As a direct manufacturer, we ensure uninterrupted service, superior quality, and highly competitive pricing. Backed by our in-house R&D laboratory and a dedicated technical team, we provide customized column solutions tailored to your application needs, ensuring reliability, performance, and long-term support.

TECHNICAL PERFORMANCE HIGHLIGHTS OF MORHCHEM COLUMNS

- High Reproducibility & Extended Lifetime
Consistent results with durable performance.
- Ultra-Pure Silica Bonded Phases
Ensuring superior separation efficiency.
- Wide pH Tolerance & Versatility
Reliable performance across diverse applications.
- Global Support & Technical Expertise
Backed by a dedicated team for method optimization
- Competitive Alternatives to Global Brands
Premium quality at an affordable price.



OUR COLUMN PORTFOLIO

Caprisil Series – Reversed Phase Excellence >>>>>

The Caprisil Series from Morhchem Technologies is a high-performance, cost-effective line of HPLC columns designed to meet the most demanding chromatography applications. Manufactured using ultra-pure silica gel and an advanced bonding process, these columns deliver ultra-high carbon loading with extreme hydrophobicity, ensuring sharp peak shapes, strong retention, and excellent resolution even under low-pressure operation. Available in 3, 5, 10 μm and larger particle sizes, Caprisil columns cover applications from micropore to preparative scale, offering outstanding batch-to-batch reproducibility, chemical stability, and longer column life. With a wide variety of stationary phase options, the Caprisil Series is ideally suited for the separation and analysis of organic compounds, biomolecules, and natural products, making it a versatile choice for research, quality control, and production laboratories.

Column Type	Key Features / Applications
C18, C8	High retention, excellent reproducibility
C18-B / C8-B	Alkaline deactivation, high resolution
C18-P / C8-P	Double end-capping, wide pH range
C18-X / C18-XS / C8-X / C8-X(2)	Hybrid silica particles, UHPLC compatible
C18-TH / C8-TH	High stability, ideal for impurity separations
C18-AQ / C18-AQ(2) / C8-AQ	100% aqueous compatibility
C18-T3	Optimized for polar analytes
OA (Organic Acids) organic acid	Specialized for organic acid separation
C18-IP / C8-IP	Low pH resistant, equivalent to Zorbax SB
Phenyl, Hexyl-Phenyl, PFP	π - π selectivity for aromatic compounds
Synsorb-PRP	Selectivity for polar/aromatic compounds
SI	Normal phase separations
NH Series (NH ₂ , NH ₂ -H, NH ₂ -E, NH ₂ -G)	Ideal for sugars & polar compounds

SPECIALIZED SERIES

ItoSep Series – Carbohydrate & Sugar Analysis >>>>>

The ItoSep Series from Morhchem Technologies is a specialized range of HPLC columns developed for the separation and analysis of carbohydrates, sugars, sugar alcohols, and organic acids. Engineered with high-purity styrene-divinylbenzene packing materials and advanced ion-exchange technology, this series offers multiple stationary phase options to suit diverse analytical needs. The ES Column is ideal for oligosaccharides and sugar alcohols, delivering excellent stability and reproducibility; the CAM Column (Ca^{2+} type) provides strong ion-exchange selectivity for monosaccharides and sugar alcohols; the COA Column (H^{+} type) ensures reliable separation of alcohols, diols, and organic acids with outstanding pH stability and efficiency; the CPM Column (Pb^{2+} type) excels in high resolution separation of carbohydrates and polyols; and the CNM Column (Na^{+} type) offers precise selectivity for monosaccharides and sugar alcohols with sharp peak shapes and consistent performance. Together, the ItoSep Series combines excellent stability, wide selectivity, high efficiency, and strong batch reproducibility, making it a dependable solution for food science, pharmaceutical analysis, fermentation monitoring, and industrial biotechnology applications.

Column Type	Key Features / Applications
ES Carbohydrate	Suitable for oligosaccharides and sugar alcohols
CAM (Ca^{2+})	Designed for sugar alcohols, simple separations
COA (H^{+})	Effective for alcohols, diols, and organic acids
CPM (Pb^{2+})	Specialized for carbohydrates and polyols
CNM (Na^{+})	For monosaccharides and sugar alcohols

CapriChiral Series – Chiral Separations >>>>>

The CapriChiral Series from Morhchem Technologies is a premium range of chiral stationary phase (CSP) columns designed to deliver highly efficient and reproducible separations for enantiomers and stereoisomers. Manufactured with cutting-edge CSP chemical technologies, these columns are available in 3 μm , 5 μm , 10 μm , and 20 μm particle sizes, covering both analytical and preparative applications. With an excellent range of selectivity, strong pressure resistance, and rapid optimization capability, the CapriChiral Series provides chromatographers with a reliable platform for resolving even the most challenging chiral compounds. Backed by comprehensive technical and methodological development support, these columns combine high separation efficiency, superior reproducibility, and wide applicability, ensuring the best performance in pharmaceutical, biotech, and advanced research laboratories.

Column Type	Key Features / Applications	Equivalent / Notes
C-1, A-1	Cellulose/amylose-based chiral phases	Equivalent to ChiralPak OD/AD
C-2, A-2	Modifies cellulose & amylose selectors	Enhanced selectivity for diverse chiral compounds
BCB, BCC, BAA, BA, BAH	Bonded chiral stationary phases	High stability. broad application range
A-3, C-3, RAA	Specialty coated chiral columns	Includes equivalents to ChiralPak AZ-H, OH-H, Chirex 3126

Applications: API enantiomers, drug isomers, advanced stereochemistry separations.

Commercial Alternatives & Accessories >>>>>

■ HyperStar BDS – Alternative to Thermo Hypersil BDS

HyperStar BDS C18 is a highly alkalinity deactivated C18 stationary phase. Superior efficiency, peak shape, and sensitivity are achieved in the application. Provides different selectivity for different sample separations.

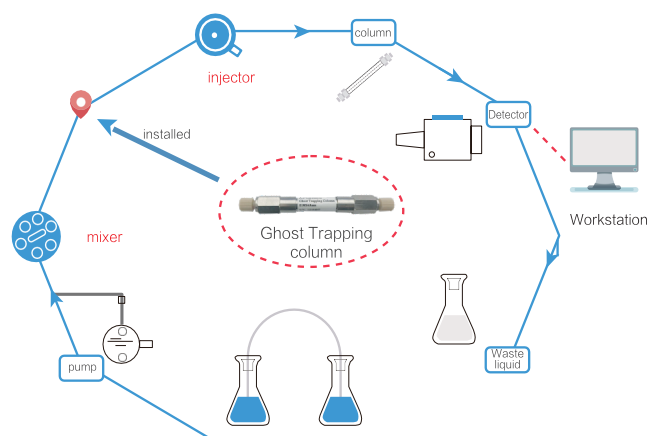
■ Spherigel ODS – Alternative to Inertsil ODS & Waters Spherisorb

Spherigel ODS is an uncapped, octadecyl stationary phase. Waters pherisorb ODS1 replacement columns for the separation of different selective chemistries.

Ghost Trapping Columns >>>>>

Ghost Trapping Column from Morhchem Technologies is designed to eliminate ghost peaks that often arise from buffer salts, acid additives, or impurities in the mobile phase during gradient analysis. By adsorbing unwanted contaminants without altering the mobile phase composition, it prevents interference with target analytes and improves chromatographic clarity. This significantly reduces troubleshooting time in method development, particularly for trace analysis. The second-generation Ghost Trapping Column further extends compatibility by allowing use with ion-pair reagents without adsorbing them..

Column Type	Dimensions (mm)
GH3321	33 × 2.1
GH5021	50 × 2.1
GH5040	50 × 4.0
GH5046	50 × 4.6
GH5078	50 × 7.8
GH5021-II (Second Generation)	50 × 2.1
GH5040-II (Second Generation)	50 × 4.0
GH5046-II (Second Generation)	50 × 4.6



Preparative Columns – Customized by Morhchem >>>>>

Morhchem Technologies offers custom-manufactured preparative columns designed to meet specific research and industrial requirements. Tailored to customer needs, these columns provide optimal performance for large-scale purification, method development, and production workflows. With flexibility in dimensions, particle sizes, and bonded phases, Morhchem ensures reliable separation solutions for both routine and specialized chromatographic applications.

MORHCHEM -EQUIVALENT Columns

Caprisil Equivalent Columns >>>>>

MORHCHEM offers a complete range of columns with equivalents to almost all major commercial columns. Some key references are given below:

Column Type	Key Features / Applications	Equivalent Columns
C18-B / C8-B	High carbon loading, strong bonding density; multi-end capping & alkaline deactivation; high resolution & sharp peak shapes; good selectivity even for complex samples	Waters Sunfire
C18-P/C8-P	Double end-capping; wide PH range (1.5-10); good for strong alkaline compounds; excellent for routine analysis & TCM	Inertsil ODS
C18-X/C18-XS/c8-x/C8-X(2)	Hybrid silica particles (organic/inorganic); resistant to hydrolysis at high pH; UHPLC compatible; long lifespan & strong retention	Waters XBridge, Waters XTerra MS
C18-TH/C8-TH	Optimized bonding for better stability; pH stability 1.5-10.5; resistant to acids/alkalis; ideal for trace impurity separation	Zorbax Eclipse, Waters Peptide, Agilent Plus C18
C18-AQ/C8-AQ/C18-AQ(2)	Designed for polar/hydrophilic analytes; compatible with 100% aqueous mobile phases; retains highly water-soluble compounds (organic acids, vitamins, purines, catecholamines)	Waters Symmetry Shield RP-18, Agilent Zorbax SB-Aq
C18-IP/C8-IP	Similar to ZORBAX SB bonding; steric protection from diisobutyl side chains; stable at low pH; longest lifespan under acidic conditions	Agilent Zorbax SB Series

CapriChiral Equivalent Columns >>>>>

MORHCHEM also offers a wide range of chiral stationary phase (CSP) columns, equivalent to many leading brands and some are below:

Caprichiral Column	Equivalent To	Caprichiral Column	Equivalent To
A-1	ChiralPak® AD	BAA	ChiralPak® IA
A-2	ChiralPak® AS-H	BAG	ChiralPak® IG
A-3	ChiralPak® AZ-H	BAH	ChiralPak® IH
C-1	ChiralPak® OD	BCB	ChiralPak® IB
C-2	Phenomenex Lux® Cellulose-2	BCC	ChiralPak® IC
C-3	ChiralPak® OJ-H	RAA	Chirex® 3126

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